05/04/2018	Kit Components
Product code	Description
42663	Xpress NC Blotting Kit
Components:	
43795	SERVA Xpress Blotting Buffer (10x)
71227	NC 2 Supported Nitrocellulose Membrane

US

Safety Data Sheet acc. to OSHA HCS

Printing date 05/04/2018

Reviewed on 03/02/2017

Identification	
Product identifier	CFD1/A
Trade name: SERVA Xpress Blotting Buffer (10x)	serving scientists
Article number: 43795 Application of the substance / the mixture Laboratory chemicals	
Details of the supplier of the safety data sheet Manufacturer/Supplier: SERVA Electrophoresis GmbH Carl-Benz-Str. 7 D-69115 Heidelberg Tel.: +49 6221 13840-0 FAX: +49 6221 13840-10 msds.info@serva.de	Gmbh
Information department: Product Safety department Tel.: +49 62 Emergency telephone number: Medical Emergency Information in case of poisoning: Poison Information Center Mainz - Phone: +49 (0) 6131 19240 (advisory service in German or English language)	221 13840-35
Hazard(s) identification	
Classification of the substance or mixture The product is not classified according to the Globally Harmoniz	ed System (GHS).
Label elements GHS label elements Void Hazard pictograms Void Signal word Void Hazard statements Void Classification system: NFPA ratings (scale $0 - 4$) Health = 0 Fire = 0 Reactivity = 0	
HMIS-ratings (scale $0 - 4$)HEALTH 0 FIRE 0 Fire 0 REACTIVITY 0 Reactivity $= 0$	
Other hazards Results of PBT and vPvB assessment PBT: PBT - assessment not available. vPvB: vPvB - assessment not available.	
Composition/information on ingredients	
Chemical characterization: Mixtures Description: Mixture of the substances listed below with nonhaza	rdous additions.
Dangerous components:	
Dungerous components.	

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• Additional information: For the wording of the listed hazard phrases refer to section 16.

(Contd. of page 1)

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist In case of complaints.

- After swallowing: Wash out the mouth and call a doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO₂ extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Special hazards arising from the substance or mixture
- Formation of dangerous gases or vapours is possible in case of fire.
- Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.

• *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

• **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed and store in dry conditions.
- · Specific end use(s) No further relevant information available.

(Contd. on page 3)

Printing date 05/04/2018

Reviewed on 03/02/2017

Trade name: SERVA Xpress Blotting Buffer (10x)

(Contd. of page 2)

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to observed. For the permanent contact of a maximum of 15 minutes gloves made of the following materials suitable: Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work clothing Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Solution Color: Colorless Odor threshold: Not determined. off-reshold: 9.1 - 9.5	Additional information about design	
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Nitrile rubber, NBR Natural rubber, NR • Eye protection: Safety glasses • Body protection: Protective work clothing • Physical and chemical properties • Information on basic physical and chemical properties • General Information • Appearance: • Form: Solution Color: Colorless • Odor: not determined • Odor threshold: Not determined. • pH-value: 9.1 - 9.5 • Change in condition Melting point/Melting range: Undetermined.	The exact break trough time has to observed.	
Natural rubber, NR • Eye protection: Safety glasses • Body protection: Protective work clothing • Physical and chemical properties • Information on basic physical and chemical properties • General Information • Appearance: • Form: Solution Color: Colorless • Odor: not determined • Odor threshold: Not determined. • pH-value: 9.1 - 9.5 • Change in condition Melting point/Melting range: Undetermined.	The exact break trough time has to observed. For the permanent contact of a m	
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	The exact break trough time has to observed. For the permanent contact of a m suitable: Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work cla Physical and chemical properties Information on basic physical and a General Information Appearance: Form: Color: Odor: Odor threshold: pH-value:	naximum of 15 minutes gloves made of the following materials of othing s chemical properties Solution Colorless not determined Not determined.
Boiling point/Boiling range: Undetermined.	The exact break trough time has to observed. For the permanent contact of a m suitable: Nitrile rubber, NBR Natural rubber, NR Eye protection: Safety glasses Body protection: Protective work cla Physical and chemical properties Information on basic physical and a General Information Appearance: Form: Color: Odor: Odor threshold: pH-value: Change in condition	naximum of 15 minutes gloves made of the following materials of othing s chemical properties Solution Colorless not determined Not determined. 9.1 - 9.5
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Printing date 05/04/2018

Reviewed on 03/02/2017

Trade name: SERVA Xpress Blotting Buffer (10x)

		(Contd. of page
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not applicable.	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
• Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Soluble.	
· Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
Solids content:	14.5 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant informations available

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No further relevant informations available.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: In case of fire: See Section 5

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: -
- \cdot on the eye: -
- · Sensitization: -
- \cdot Other information (about experimental toxicology): -
- \cdot Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

(Contd. on page 5)

[·] Chemical stability

Printing date 05/04/2018

Reviewed on 03/02/2017

Trade name: SERVA Xpress Blotting Buffer (10x)

(Contd. of page 4) When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

· Uncleaned packagings:

· Recommendation:

Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
· ADR, IMDG, IATA	Void	
\cdot UN proper shipping name		
· ADR, IMDG, IATA	Void	
· Transport hazard class(es)		
· ADR, IMDG, IATA		
· Class	Void	
· Label	-	

Printing date 05/04/2018

Reviewed on 03/02/2017

Trade name: SERVA Xpress Blotting Buffer (10x)

	(Contd. of page 5)
· Packing group · ADR, IMDG, IATA	Void
• Environmental hazards: • Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	I of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

None of the ingredients is listed.

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Product safety department

Printing date 05/04/2018

Reviewed on 03/02/2017

Trade name: SERVA Xpress Blotting Buffer (10x)

Contact: +49 6221 13840-35	
Date of preparation / last revision 05/04/2018 / 1	
Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangere	euses par chemin de fer (Regulations Concerning t
International Transport of Dangerous Goods by Rail)	1 5 (6)
ICAO: International Civil Aviation Organisation	
PBT: persistent, bioaccumulative, toxic substance (REACH)	
vPvB: very persistent, very bioaccumulative substance (REACH)	
REACH: Regulation concerning the Registration, Evaluation, Authorisation and Re.	striction of Chemicals
CLP: Regulation on classification, labelling and packaging of substances and mixtu	
ADR: Accord européen sur le transport des marchandises dangereuses par Route	
Carriage of Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
* Data compared to the previous version altered.	
Data comparea to the providus version andreat	

Printing date 05/04/2018

Reviewed on 11/09/2015

Product identifier	SERVA
Trade name: <u>NC 2 Supported Nitrocellulose Membrane</u>	serving scientists
Article number: 71227	
CAS Number:	
9004-70-0 Index number:	
603-037-01-3	
Application of the substance / the mixture Laboratory chemicals	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	C
SERVA Electrophoresis GmbH	\odot
Carl-Benz-Str. 7	
D-69115 Heidelberg	.9
Tel.: +49 6221 13840-0	C
FAX: +49 6221 13840-10	2
msds.info@serva.de	0
Information department: Product Safety department Tel.: +49 62	21 13840-35
Emergency telephone number:	-
Medical Emergency Information in case of poisoning:	
Poison Information Center Mainz - Phone: +49 (0) 6131 19240 (advisory service in German or English language)	
(uuvisory service in German or English tanguage)	
Classification of the substance or mixture	
Classification of the substance or mixture GHS02 Flam. Sol. 1 H228 Flammable solid.	
Classification of the substance or mixture GHS02 Flam. Sol. 1 H228 Flammable solid. Label elements	
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Classification of the substance or mixture GHS02 Flam. Sol. 1 H228 Flammable solid. Label elements GHS label elements GHS label elements The substance is classified and labeled according to the Globally Hazard pictograms GHS02 Signal word Danger Hazard statements Flammable solid. Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. No smoking Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Wear protective gloves/protective clothing/eye protection/face pro In case of fire: Use for extinction: CO2, powder or water spray. Classification system: NFPA ratings (scale 0 - 4)	g.
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Printing date 05/04/2018

Reviewed on 11/09/2015

Trade name: NC 2 Supported Nitrocellulose Membrane

· HMIS-ratings (scale 0 - 4)



· Other hazards

· Results of PBT and vPvB assessment

· **PBT:** PBT - assessment not available.

· **vPvB**: vPvB - assessment not available.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 9004-70-0 cellulose nitrate
- · Identification number(s)
- · Index number: 603-037-01-3
- · Additonal information: Nitrocellulose, nitrogen content max. 12,6%

4 First-aid measures

· Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist In case of complaints.

- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO₂ extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture Formation of dangerous gases or vapours is possible in case of fire. In case of fire, the following can be released: Nitrogen oxides (NOx)
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation Keep away from ignition sources • Environmental precautions: Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

(Contd. of page 1)

(Contd. of page 2)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/04/2018

Reviewed on 11/09/2015

Trade name: NC 2 Supported Nitrocellulose Membrane

- Methods and material for containment and cleaning up: Pick up mechanically.
 Dispose contaminated material as waste according to item 13.
 Reference to other sections
 See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
- 7 Handling and storage
- · Handling:
- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Keep away from sources of heat.
- Information about storage in one common storage facility: Do not store together with strong oxidizing agents.
- Further information about storage conditions: Keep receptacle tightly sealed and store in dry conditions.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Store protective clothing separately.
- Immediately remove all soiled and contaminated clothing.
- Avoid contact with the eyes and skin.
- Wash hands before breaks and at the end of work.
- Breathing equipment: Suitable respiratory protective device recommended.
- · Protection of hands:
- Protective gloves
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Nitrile rubber, NBR Natural rubber, NR

(Contd. on page 4)

US

Printing date 05/04/2018

Reviewed on 11/09/2015

Trade name: NC 2 Supported Nitrocellulose Membrane

· Eye protection: Safety glasses

• **Body protection:** Protective work clothing

9 Physical and chemical properties	S
• Information on basic physical and o • General Information	chemical properties
· Appearance:	
Form:	Membrane
Color:	White
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	no information available
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	no information available
· Ignition temperature:	> 160 °C (> 320 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
• Danger of explosion:	Not determined.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Insoluble.
· Partition coefficient (n-octanol/wat	er): Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Organic solvents:	0.0 %
Solids content:	100
• Other information	<i>No further relevant information available.</i>

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions Reacts with acids.

· Conditions to avoid Avoid high temperatures, flames, sparks

(Contd. on page 5)

US

⁽Contd. of page 3)

(Contd. of page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 05/04/2018

Reviewed on 11/09/2015

Trade name: NC 2 Supported Nitrocellulose Membrane

- · Incompatible materials: Avoid contact with strong oxidizers.
- · Hazardous decomposition products: In case of fire: See Section 5

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- \cdot on the skin: -
- on the eye: -
- · Sensitization: -
- \cdot Other information (about experimental toxicology): -
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

- · OSHA-Ca (Occupational Safety & Health Administration)
- Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Do not allow product to reach ground water, water course or sewage system.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Disposal must be made according to official regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation:

Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.

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UN-Number DOT, ADR, IMDG, IATA	UN3270
UN proper shipping name DOT, IATA ADR	Nitrocellulose membrane filters 3270 Nitrocellulose membrane filters
IMDG	NITROCELLULOSE MEMBRANE FILTERS
Transport hazard class(es)	
DOT	
Class	4.1 Flammable solids, self-reactive substances and sol desensitised explosives
Label	4.1
ADR, IMDG, IATA	
Class	4.1 Flammable solids, self-reactive substances and sol desensitised explosives
Label	4.1
Packing group DOT, ADR, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Flammable solids, self-reactive substances and sol desensitised explosives
Danger code (Kemler):	-
EMS Number: Stowage Category	F-A,S-I D
Transport in bulk according to Annex	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
IMDG	1
Limited quantities (LQ)	1 kg
Excepted quantities (EQ)	Code: E2 Maximum net avantity per inner packacing, 30 c
	Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
UN "Model Regulation":	UN3270, Nitrocellulose membrane filters, 4.1, II

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15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

 \cdot Section 355 (extremely hazardous substances):

Substance is not listed.

- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is listed.
- · Proposition 65
 - Substance is not listed.
- · Chemicals known to cause cancer:
- Substance is not listed.
- \cdot Chemicals known to cause reproductive toxicity for females:
- Substance is not listed.
- Chemicals known to cause reproductive toxicity for males:
- Substance is not listed.
- · Chemicals known to cause developmental toxicity:
- Substance is not listed.
- · Cancerogenity categories
- · EPA (Environmental Protection Agency)
- Substance is not listed.
- · TLV (Threshold Limit Value established by ACGIH)
- Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health)
- Substance is not listed.
- · GHS label elements
- The substance is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms GHS02
- · Signal word Danger
- · Hazard statements
- Flammable solid.
- · Precautionary statements
- Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Wear protective gloves/protective clothing/eye protection/face protection.
- In case of fire: Use for extinction: CO2, powder or water spray.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product safety department
- · Contact: +49 6221 13840-35
- Date of preparation / last revision 05/04/2018 / 2

• Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation

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PBT: persistent, bioaccumulative, toxic substance (REACH)	
vPvB: very persistent, very bioaccumulative substance (REACH)	
REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals	
CLP: Regulation on classification, labelling and packaging of substances and mixtures	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Interna	ational
Carriage of Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Flam. Sol. 1: Flammable solids – Category 1	
• * Data compared to the previous version altered.	
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